

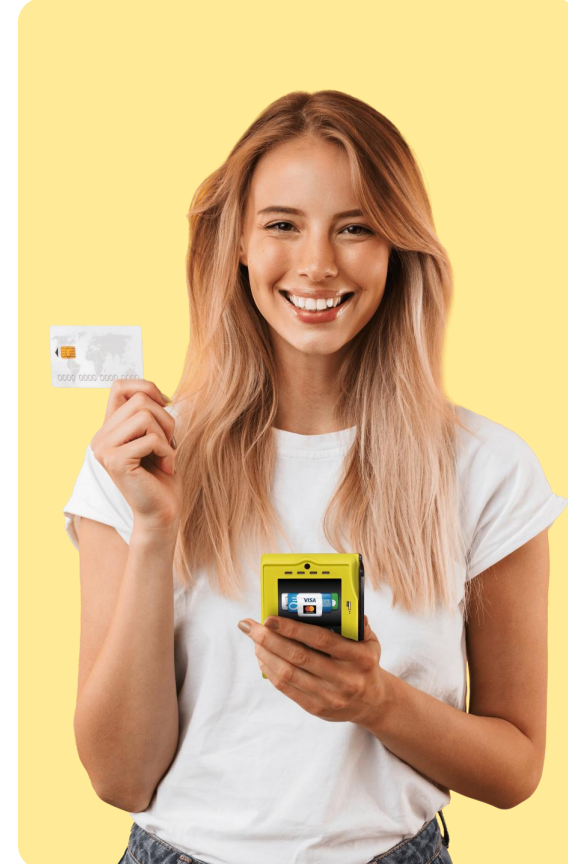


Best practice for Nayax SDK Integration

Marshall / EMV-Core / Spark

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May 29, 2026



Nayax SDKs

Connect Nayax POS with your machines, kiosks, EV chargers, or any physical application.



Unattended Devices | Marshall

Connect unattended machines using VPOS Touch or Onyx via physical connectivity.



Fuel & Forecourt | Marshall Pro

Specialized integration for fuel dispensers featuring a certified step-by-step process.



Attended Retail | TweezerComm

Integrate attended payment devices (Nova line) directly with your Point of Sale.



Embedded Devices | EMV Core

Connect unattended machines using embedded Nayax payment devices (Uno line).



Remote Integration | Spark

Remotely integrate your platform with Nayax devices via server-to-server connection.



EV Charger | OCPI

Integrate your EV platform using the Open Charge Point Interface (OCPI) protocol.

COMING SOON

<https://devzone.nayax.com>

Integration process

需求讨论和SDK说明会

SDK集成编译和驱动调试

应用程序开发

测试认证



• 提供SDK相关资料

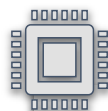
- ✓ Marshall Protocol
- ✓ Marshall Flow Example
- ✓ Marshall-java-android-marshall-demo_0_1_x_xx.zip
- ✓ <https://developerhub.nayax.com/docs/marshall-sdk>

• 讨论功能需求

- ✓ 双方技术对接人员、项目经理等召开Teams线上会议。
- ✓ 开发者确认所需支付流程及功能。
- ✓ Nayax根据需求介绍相应的API调用流程。

✓ 开发过程介绍。

注：此处以Marshall Java SDK为例



• SDK集成编译

- ✓ 将Marshall-java-android-marshall-demo中的代码加入到你的Android工程编译环境，排除编译错误，确保编译通过。

• 串口驱动调试

- ✓ 针对Android系统，SDK Demo中默认使用USB转串口的形式，USB串口驱动类位于nayax-android-marshall-demo\app\src\main\java\com\bitmick\app\ftdi_port_t.java。
- ✓ 如果您的机器直接使用RS232串口，可参考pc_port.java来实现串口类。



• 实现基本交易流程

- ✓ vmc_config参数初始化
- ✓ 可参考nayax-android-marshall-demo\app\src\main\java\com\bitmick\app\MainActivity.java来实现您的业务流程。
- ✓ Marshall核心库位于nayax-android-marshall-demo\app\src\main\libs\marshall-java-sdk.jar。
- ✓ 能执行正常刷卡流程。

• 完善对异常情况的处理

- ✓ Declined
- ✓ Cancel
- ✓ Reset (MultiSession)
- ✓ Timeout (MultiSession)
- ✓ 小数位数校准



• 按Nayax测试用例进行测试

- ✓ 实现导出log文件的方法。
- ✓ 开发完成并自测没有明显问题后，录制一段正常交易过程的视频，并导出对应的日志文件，一并发送给Nayax工程师确认。
- ✓ 以上确认无误后，Nayax工程师发送完整的测试用例给开发者进行测试。
- ✓ 测试用例一共9~12项，每一项测试都需要单独保存一个log文件，且不要将多个测试混在一个log文件中；其中第3项还需要录制视频。完成所有测试后，将日志和视频发送给Nayax审核。

Best Practice - Marshall

Integration Kit



Touch Device



Device Connector
Connects power, cables, and additional accessories required for the device's operation.



LAN (Ethernet Cable Port)
Enables a wired connection to a router for internet access.



Antenna
Attaches cellular antenna for network communication.



SIM
SIM card for enabling data connectivity in Nayax Touch VPOS devices.



Chipi-X USB2Com adaptor cable
USB-to-serial adaptor cable for connecting Nayax Touch VPOS devices.



24V DC power adaptor
24V DC power adaptor for powering Nayax Touch VPOS units.

Best Practice - Marshall

Recommended Flows

The **Multi-Session** payment flow separates the consumer interaction into two distinct parts:

1. Product selection / Pre-Authorization.
2. Settlement

This differs from the **Single-Session** flow, in which settlement is performed immediately after product selection and authorization.

Machine Type	Recommended Flow	Recommended Configuration
Vending Machine	Single Session + Pre-Selection	Always Idle
Coin Exchanger	Single Session + Pre-Selection	Always Idle
Cotton Candy	Single Session + Pre-Selection	Always Idle + Explicit Vend Success
Photo Booth	Single Session + Pre-Selection	Always Idle
Coffee Machine	Single Session + Pre-Selection	Always Idle
Massage Chair	Single Session + Pre-Selection	Always Idle
Car Washing Machine	Single Session + Pre-Selection	Always Idle
EV Charger 1	Multi Session	Price not final
EV Charger 2	Multi Session	Price not final + Mifare approved by VMC
EV Charger 3	Multi Session	Price not final + Mifare approved by VMC + Info Session
EV Charger 4	Multi Session	Price not final + Mifare approved by VMC + Info Session + Always On
Smart Fridge	Multi Session+ Sub flows / features	Price not final + Always On
Power Bank	Multi Session+ Sub flows / features	Price not final + Always On
Locker	Multi Session	Price not final
Racket Rental Machine	Multi Session	Price not final + Always Idle

Best Practice – Marshall

Core Program Code

```
1 public static void main(String[] args)
{
    GenericMenu menu = new GenericMenu();

    m_vmc = vmc_framework.getInstance();

    logger.d("main", "welcome to marshall-java-sdk");
    logger.d("main", String.format(format: "marshall-sdk version: %s", vmc_framework.get_version()));

    vmc_config = new vmc_configuration();

    vmc_config.machine_type = vmc_configuration.machine_type_type_card_reader;
    vmc_config.model = "marshall-java-sdk";
    vmc_config.serial = "01234567";
    vmc_config.sw_ver = vmc_framework.get_version();
    vmc_config.hw_ver = "YourCompanyName";
    vmc_config.manuf_code = "YourCompanyName";

    vmc_config.multi_vend_support = false;
    vmc_config.multi_session_support = true;
    vmc_config.price_not_final_support = true;
    vmc_config.reader_always_on = false;
    vmc_config.always_idle = false;
    vmc_config.vend_denied_policy = vmc_configuration.vend_denied_policy_persist;
    vmc_config.explicit_vend_success = false;

    vmc_config.mifare_approved_by_vmc_support = false;
    vmc_config.mag_card_approved_by_vmc_support = false;

    vmc_config.dump_packets_level = vmc_configuration.debug_level_dump_moderate;
    vmc_config.debug = true;
}
```

```
2 private static void handle_start_session(vmc_vend_t.vend_session_t session)
{
    if (vmc_config.always_idle)
    {
        // vend request
        m_vmc.vend.vend_request(session);
    }
    else
    {
        session_timer_start();

        m_vmc.vend.session_start(vmc_vend_t.session_type_credit_e);
    }
}
```

```
3 public boolean onVendApproved(vmc_vend_t.vend_session_t session)

public void onVendDenied(vmc_vend_t.vend_session_t session)
```

```
4 private static void handle_close_session(vmc_vend_t.vend_session_t session)
{
    if (session != null)
    {
        // this line demonstrates the price_not_final capability.
        if (vmc_config.price_not_final_support)
        {
            session.products_list.get(index: 0).price = (short) (session.products_list.get(index: 0).price / 2);
        }

        session.session_status = vmc_vend_t.session_status_ok_e; // session_status_fail_to_dispense_e

        m_vmc.vend.session_close(session);
    }
}
```

注：Marshall包括C、C#、Java三种语言的SDK，此处以Java为例

Best Practice - Marshall

Common Problems

- `decimal_place`
金额使用最小单位，即实际金额x10的N次方。
- `public void onSessionTimeout(int session_id)`
MultiSession模式中，收到此回调/消息表示交易已经因预授权超时被读卡器自动结算，主机不需要再调用Close Session指令进行结算。
- `public void onStatus(int status, byte[] extra_data)`
监听该回调/消息，可判断读卡器状态：如果status==21，则表示读卡器不可用；如果status==20，则表示读卡器处于待机可用状态。
- `public void get_session_status()`
`public void onOpenedSessions(short[] sessions)`
MultiSession模式中，在主机或读卡器异常重启后，可读取当前未关闭的Session ID，根据需要进行关闭。
- 使用Marshall数据线上的COM2口连接主机，否则读卡器将无法与主机正常通信。

Best Practice - EMV Core Integration Kit

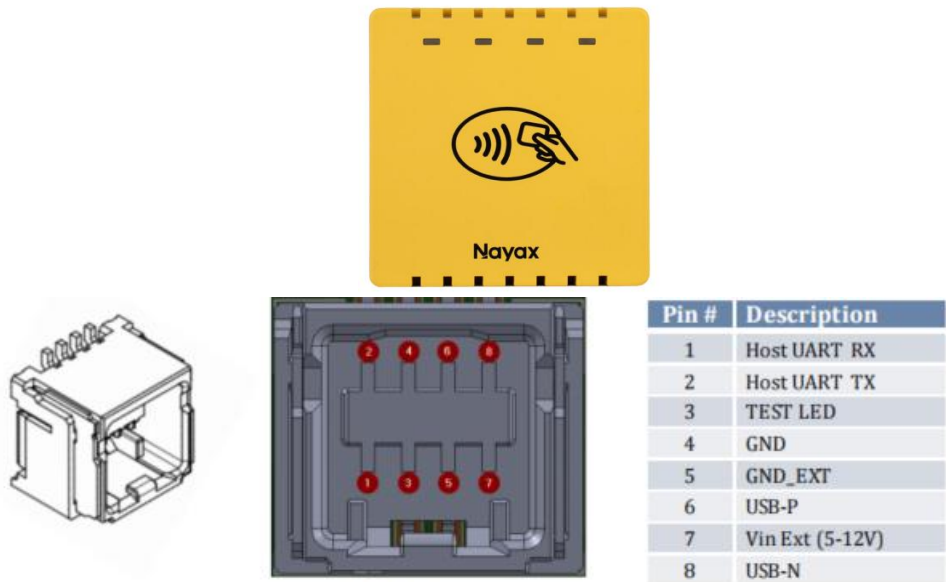


Figure 4-1: UNO-mini Connector

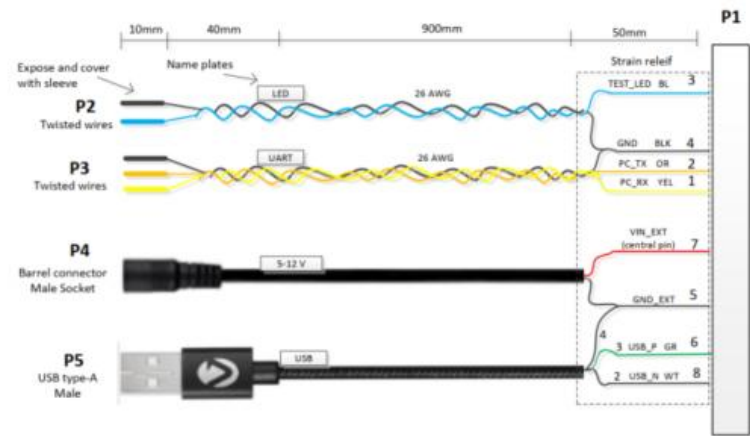


Figure 4-2: UNO-mini Cable

NOTE: The cable is not included in the UNO-mini mass-production Bill Of Materials (BOM).

A JST 10 pin connector (JST P/N BM10B-ZPDSS) is available to access the reader full interface.

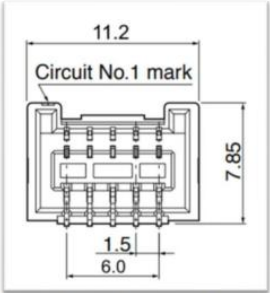


Figure 3-1: BM10B-ZPDSS Connector housing on UNO-8

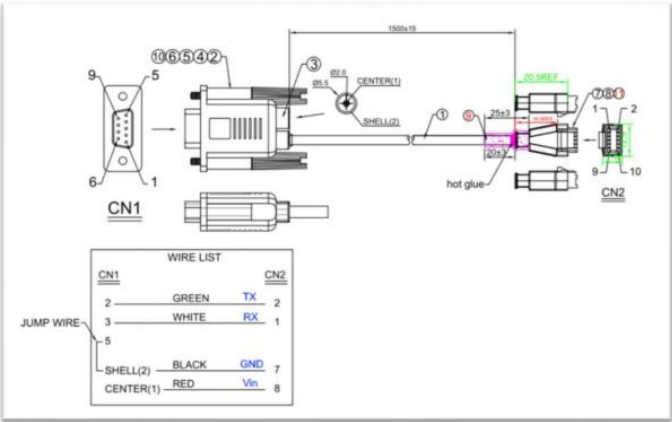


Figure 3-2: ZPD to DB9 cable



In this hardware configuration, the reader is USB powered; no additional power supply is required.

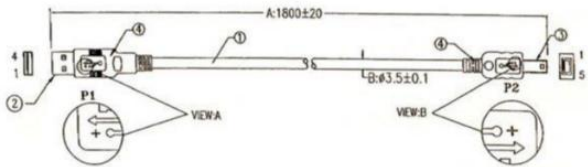


Figure 3-4: USB Cable

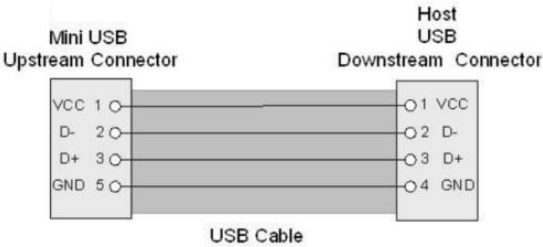


Figure 3-5: USB Connection

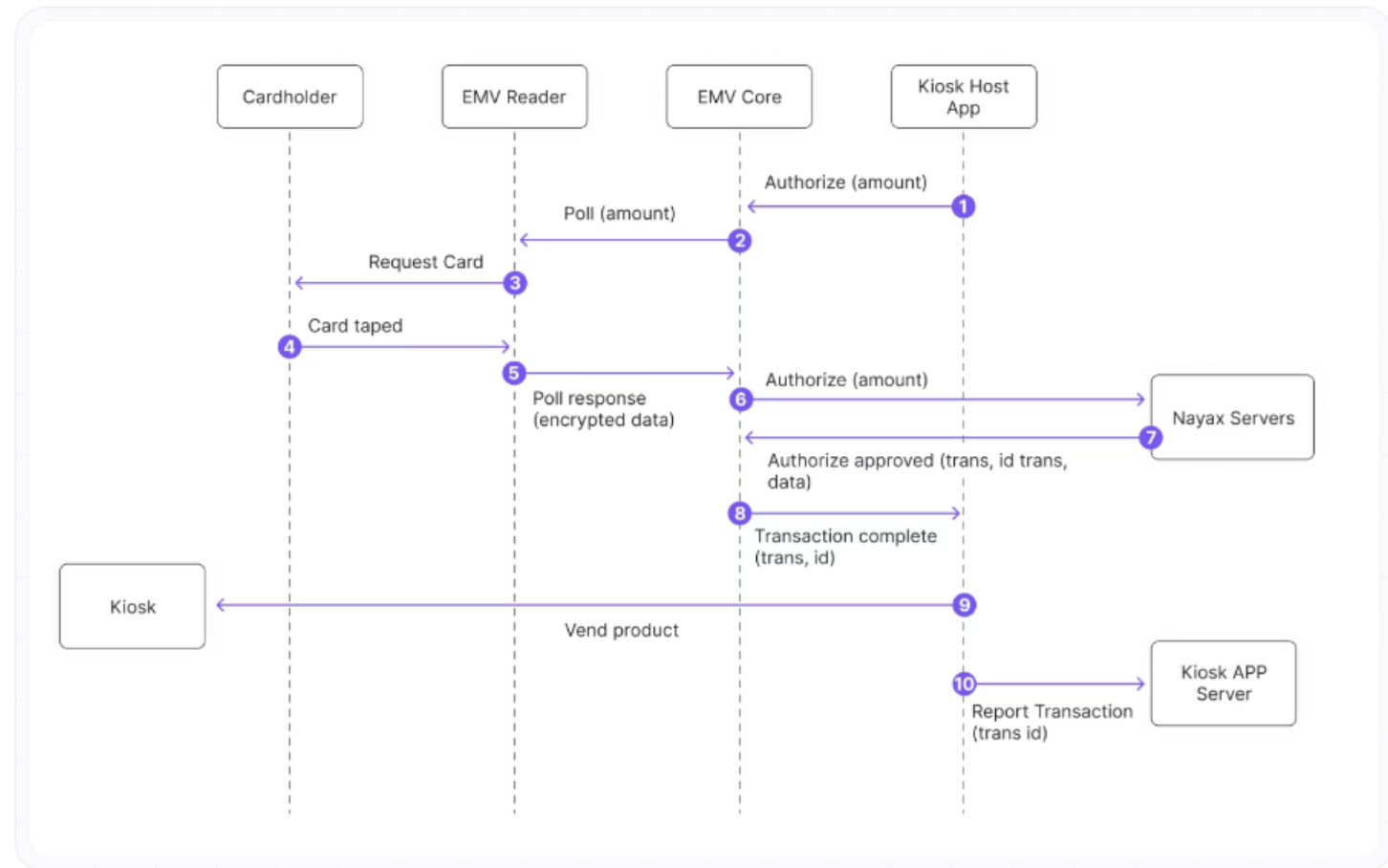
Best Practice - EMV Core

Recommended Flows

Payment with pre-authorization is the recommended approach by Nayax due to its more robust process, which makes it safer.

It is composed of two steps:
1.Pre-authorization
2.Settlement

For instance, both **Vending Machines** and **Smart Fridge** operate on the pre-authorization model.



Best Practice - EMV Core

Core Program Code

```
/**
 * Start polling with authorize transaction
 *
 * @param amount Transaction amount
 * @param timeoutSeconds Timeout to transaction complete
 */
public void StartPollWithAuthorize(int amount, int timeoutSeconds, boolean continuous) throws EmvCoreException {
    MainActivity.getEmvCoreHandle().PreAuthorize(amount, 0, timeoutSeconds, continuous);
}
```

```
/**
 * Start polling with get token
 *
 * @param timeoutSeconds Timeout to transaction complete
 */
public void StartPollWithGetToken(int timeoutSeconds, boolean continuous) throws EmvCoreException {
    MainActivity.getEmvCoreHandle().GetCardToken(timeoutSeconds, continuous);
}
```

```
/**
 * Tells the POS to stop searching for card.
 * Calling this will stop the execution of AuthorizeTransaction or PayTransaction.
 * This method is blocking until cancellation was accepted and EMV core is ready for further requests.
 */
public void CancelTransaction() throws EmvCoreException {
    MainActivity.getEmvCoreHandle().CancelTransaction();
}
```

```
/**
 * A confirmation request is the second stage to an authorization request.
 * It is used to confirm the authorization was obtained so that settlement can take place.
 * EMV Core will send the confirmation request (settlement) to the server, in the background,
 * without blocking the Sales-App from starting another transaction.
 *
 * @param transactionReference identifier of this transaction - received in com.nayax.pos.IPaymentCallback.TransactionComplete() callback
 * @param actualAmount Actual transaction amount in minor units (e.g. cents). may be different than amount from PreAuthorize()
 * @param productID ID of the product that was purchased
 */
public void ConfirmTransaction(String transactionReference, int actualAmount, int productID) throws EmvCoreException {
    MainActivity.getEmvCoreHandle().ConfirmTransaction(transactionReference, actualAmount, productID);
    MainActivity.getTransactions().removeTransaction(transactionReference);
}
```

```
/**
 * Close a transaction that was already approved without charging the consumer.
 * A Void Transaction request is used to void the last transaction that has been done in 2 cases:
 * A. AuthorizeTransaction() succeeded but ConfirmTransaction() was not called yet.
 * in order to release funds that have been reserved against an account when the transaction will no longer take place.
 * B. Transaction has been done using PayTransaction() but needs to be canceled (e.g. when product has not been vended)
 * @param transactionReference identifier of this transaction - received in TransactionComplete() callback
 */
void VoidTransaction(String transactionReference) throws EmvCoreException {
    MainActivity.getEmvCoreHandle().VoidTransaction(transactionReference);
    MainActivity.getTransactions().removeTransaction(transactionReference);
}
```

注：EMV Core包括Linux、Android、RTOS三种平台的SDK，此处以Android为例

Best Practice - EMV Core

Common Problems

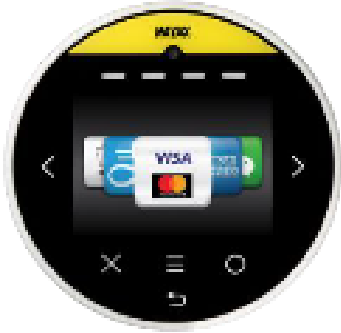
UNO-mini硬件集成-合规检查表	
基于UNO-mini硬件集成指南v02 Nayax Embedded	
说明：检查每个项目。在适当的一栏（及格/不及格/不及格）上打上“√”的标记，并在相关的地方添加注释。	
#	Checklist Item
A. 机械与安装	
A1	UNO-mini安装在尽可能靠近前面板的位置。
A2	UNO-mini安装在尽可能远离金属部件的地方（金属靠近会降低NFC性能）。
A3	如果使用M3安装螺钉，最大安装深度为4mm。
A4	设计一个塑料支架将UNO-mini安装到机体上（不单独依靠M3螺钉）；机械设计在生产前由Nayax技术支持审核并确认。
B. 用户界面	
B1	EMV非接触式标志位于天线的中心（与设备上打印的位置相同）。
B2	EMV标志符合EMVCo非接触式符号复制要求（2019年10月）。
B3	所有4个EMV led对最终用户都是可见的（透明窗口，光管或屏幕模拟）。
B4	如果在屏幕上实现LED - LED行为符合EMVCo准则： （空闲时左边第一个灯闪烁，等待刷卡时左边第一个灯常亮，读卡时4个灯依次亮起， 错误时所有灯熄灭等）。
B5	如果采用音频指示，则符合EMVCo的指引： 成功音（~ 1500hz, 500ms）和警报音（~750 Hz双蜂鸣声， 200ms开/ 200ms关/ 200ms开）。
C. Nayax序列号	
C1	设备标签上显示Nayax SN (Serial Number)，标签文字为“Nayax SN： ”。
C2	Nayax SN显示在机器显示器上（如果存在）， 通过getDeviceID API检索。
C3	Nayax SN链接到OEM后台系统中的OEM机器ID。

D. 电源	
D1	在所有负载条件下，供电电压在5 - 14VDC以内；确保不出现低于4.5 V的情况。
D2	电源为稳压直流，不使用未经滤波的交流整流电源。
D3	电源能维持≥3w峰值，无电压下降。
D4	在集成/验证期间，用示波器验证电源稳定性。
D5	Vin/地线线规：电压5 - 6v时，线宽26 AWG，线长≤1m。
E. USB连接（如果使用USB接口）	
E1	USB D+/D-线为双绞线，差分阻抗90 Ω±15 Ω。
E2	USB线缆总长度不超过3m。
E3	使用屏蔽USB 线；屏蔽只在主机端与机箱接地连接。（推荐）
E4	USB电缆布线导管不与大电流电源配线共用。
E5	主机应用程序处理USB断开/重新连接事件并自动恢复会话。
F. UART TTL连接（如果使用UART接口）	
F1	UART逻辑电平为3.3 V TTL；5 V逻辑不要直接连接（如果主机是5 V，则需使用电平转换器）。
F2	主机接收输入阻抗最小为5 KΩ (推荐10-100 KΩ，以确保470Ω UNO-mini TX系列电阻两端电压降小于10%)
F3	波特率设置为115200bps（默认）；任何改变都要和Nayax协调。
F4	UART电缆长度在115200 bps时不超过1m；用于UART TX/RX线路的屏蔽双绞线。
F5	UART布线远离大电流电源线和开关电源。

G. 接地	
G1	引脚4 （GND）连接到信号/ UART通信参考地。
G2	引脚5 （GND_EXT）连接到电源返回地。
G3	两个GND引脚都连接；两者都不是浮动的。
H. 电源复位恢复[推荐]	
H1	主机硬件包括在UNO-mini Vin线（引脚7）上的软件控制电源开关，能够维持3w峰值。
H2	电源复位顺序：断电保持≥500ms（电容完全放电），然后恢复电源，主机等待UNO-mini启动≥10s后恢复通信。
H3	只有在正常通信恢复（USB/UART重新连接）失败后才触发电源复位；记录复位事件用于远程诊断。
H4	在整个电源复位周期中保持GND连续性（引脚4和5）；在启动电源重置之前，任何进行中的事务都将失效或解决。

Best Practice – Spark

Integration Kit



Remote Device Integration → Spark

Remotely integrate your platform with Nayax devices (server-to-server integration). Ideal for POS and platform integrations.

Best Practice - Spark

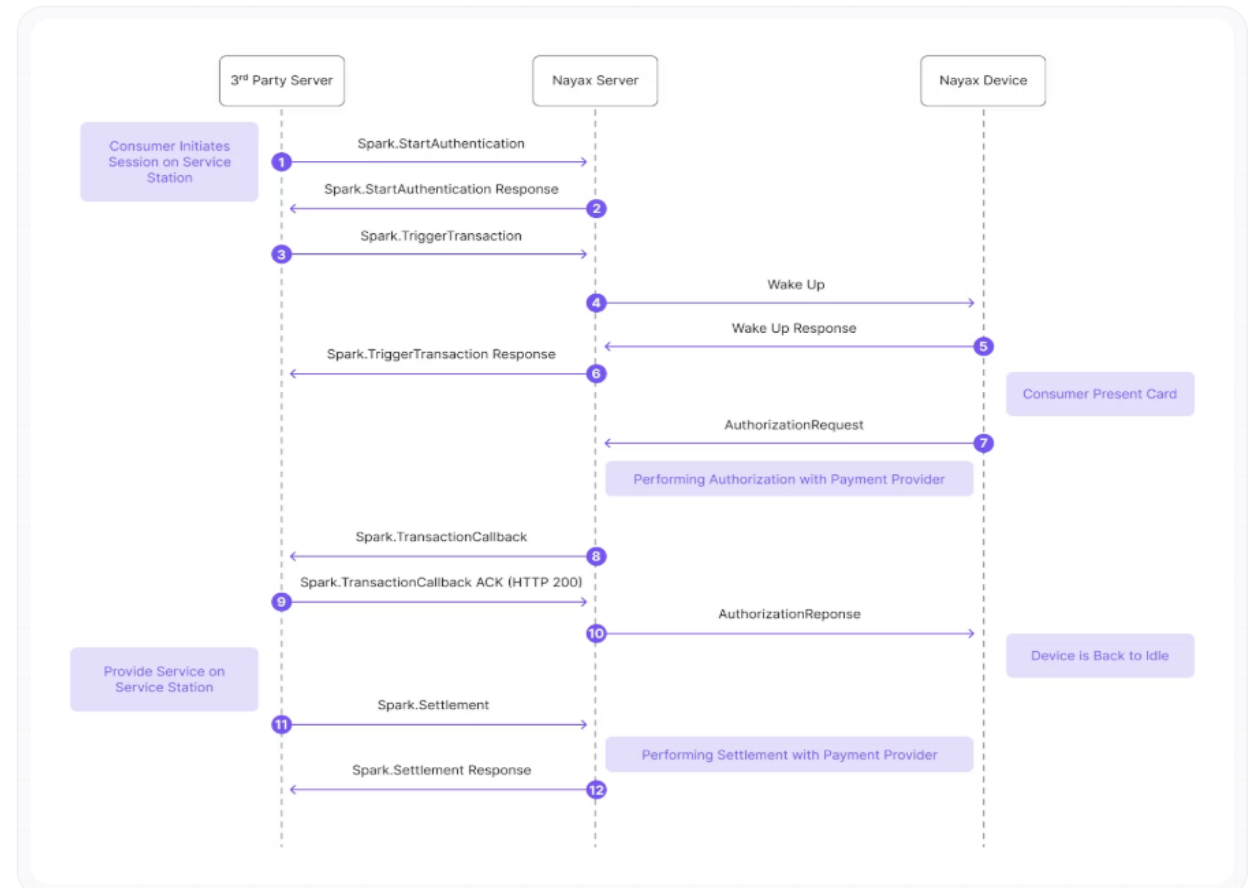
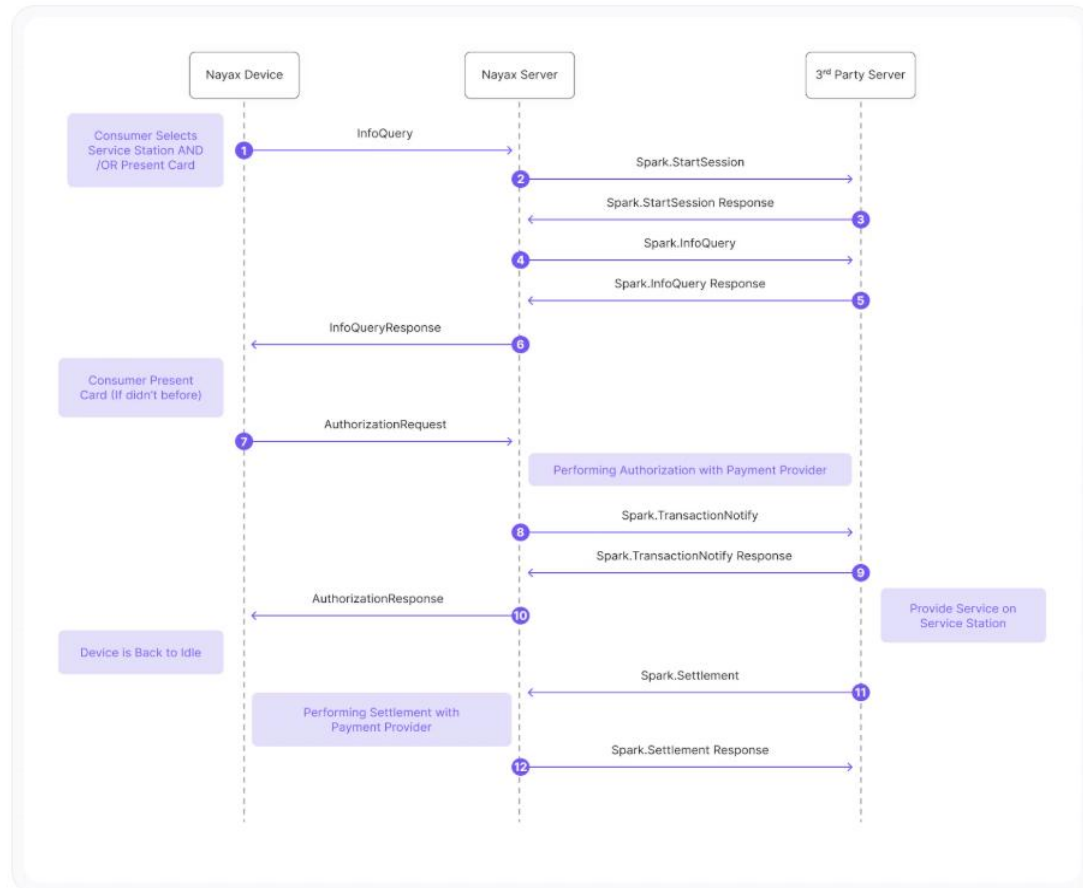
Recommended Flows



Device Start

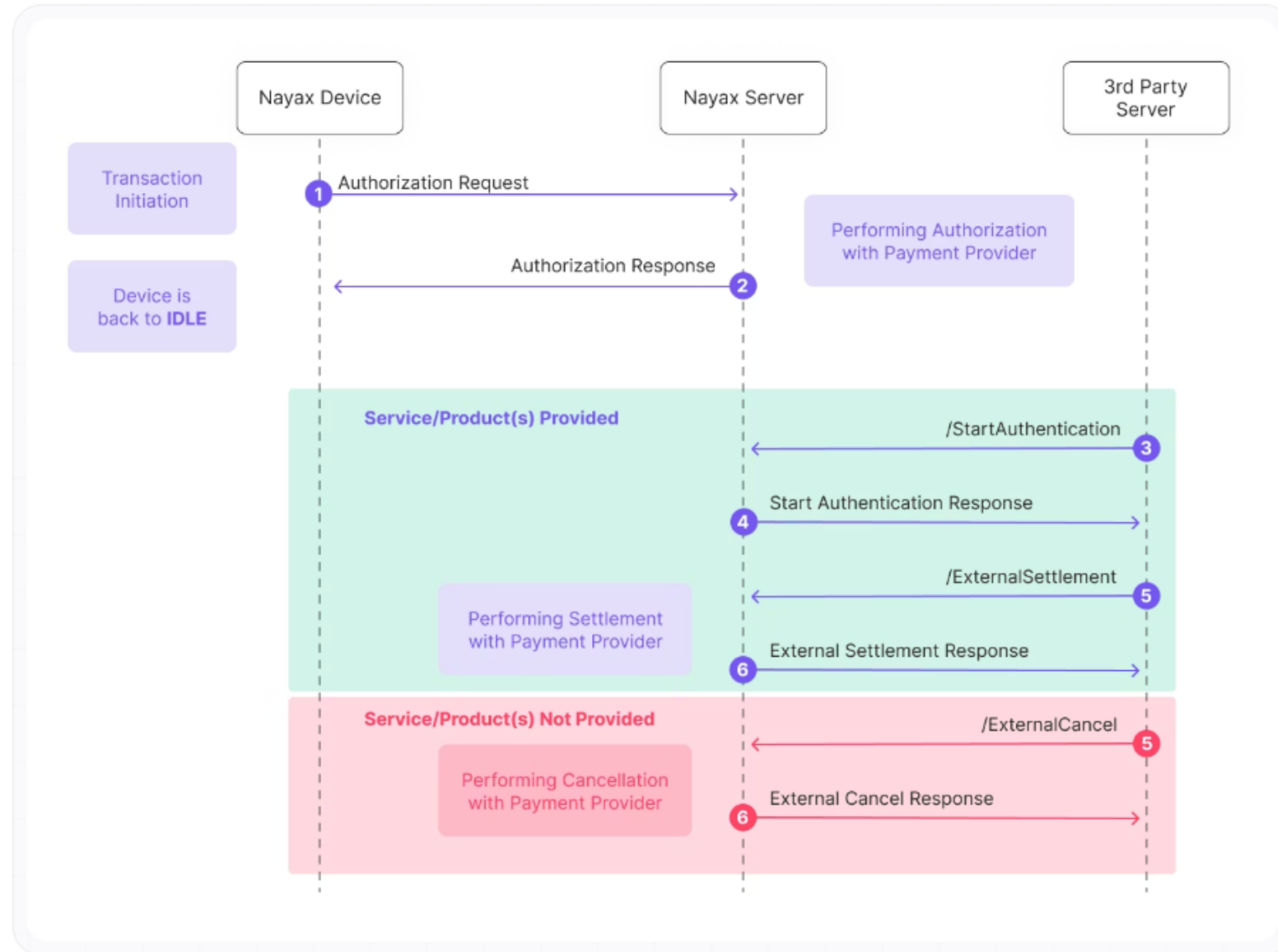


Remote Start



Best Practice - Spark

External Settlement



Best Practice - Spark

Core Program Code

/StartAuthentication

Request

```
{
  "TokenId": 116383,
  "TerminalId": "0434334921100366",
  "TerminalIdType": 1,
  "Random": "123456789qwertyui",
  "Cipher": "X305dITNTAw2vHsxE+taVcn6UvgBC3fdI6QbqeABgHbo8CKsoZhqISJfslehCiA+L7XYrqvKFci7C6BNj/tr
zBuNJwBEjgBzKhgJ5ggnw="
}
```

Response

```
{
  "HashedSparkTransactionId": "9515af0d6b5c328b6383ff241fa7b03e489d6285a8db6a4f0d8369e3f044e8d7",
  "Status": {
    "Verdict": "Approved",
    "ErrorDescription": "No Errors "
  }
}
```

```
{
  "Status": {
    "Verdict": "Declined",
    "ErrorCode": 33,
    "ErrorDescription": "Fail to Authenticate"
  }
}
```

Best Practice - Spark

Core Program Code

/ExternalSettlement

Request

```
{
  "NayaxTransactionId": 2004545072,
  "SparkTransactionId": "12c7cec2-c690-4425-9a1f-db0db60e2d8c",
  "MachineAuTime": "20240205194122328",
  "SiteId": 2,
  "TerminalId": "0434334921100366",
  "TerminalIdType": 1,
  "Amount": 12.25,
  "EReceiptData": "{\\General\\":[{\\Company\\:\\\"Your Payments - Our Solutions\\\",\\\"Station Name\\\":\\\"B12\\\"}],\\Service\\":[{\\Product\\:\\\"Something Yummy\\\",\\\"Price Per Unit\\\":\\\"$2.45\\\",\\\"Number of Units\\\":\\\"5\\\"}],\\Support\\":[{\\Phone\\:\\\"+1-800-555-0199\\\",\\\"Email\\\":\\\"support@example.com\\\"}]}"
  ,
  "ProductInfo": "[{\\\"Value\\\":6.5,\\\"Code\\\":12,\\\"Quantity\\\":3},{\\\"Value\\\":4.35,\\\"Code\\\":20,\\\"Quantity\\\":2},{\\\"Value\\\":7,\\\"Code\\\":3,\\\"Quantity\\\":1}]"
}
```

Response

```
{
  "SparkTransactionId": "12c7cec2-c690-4425-9a1f-db0db60e2d8c ",
  "Status": {
    "Verdict": "Approved",
    "ErrorDescription": "No Errors"
  },
  "CardBrand": "Visa",
  "CardLast4Digits": "1234",
  "AuthCode": "333333",
  "MachineAuTime": "20240205194122328",
  "AuTime": "20240205174122328",
  "SeTime": "20240205192215572",
  "CurrencyCode": "EUR",
  "CurrencyNumeric": "978",
  "FiscalRrn": "1A2b3C4d5E6f7g8H9i",
  "NayaxRRN": "111111",
  "Amount": 12.25,
  "CardFirst6Digits": "123456"
}
```

```
{
  "SparkTransactionId": "12c7cec2-c690-4425-9a1f-db0db60e2d8c ",
  "Status": {
    "Verdict": "Declined",
    "ErrorCode": 50,
    "ErrorDescription": "External Settlement Failed",
    "StatusMessage": "Missing Mandatory Fields"
  }
}
```

Best Practice - Spark

Core Program Code

/ExternalCancel

Request

```
{
  "NayaxTransactionId": 2004545072,
  "SparkTransactionId": "12c7cec2-c690-4425-9a1f-db0db60e2d8c",
  "SiteId": 2,
  "MachineAuTime": "20240205194122328",
  "TerminalId": "0434334921100366",
  "TerminalIdType": 1,
  "CancellationType": 1,
  "CancelAmount": 15.00,
  "ReasonCode": "75",
  "ReasonText": "Service not provided"
}
```

Response

```
{
  "SparkTransactionId": "12c7cec2-c690-4425-9a1f-db0db60e2d8c",
  "Status": {
    "Verdict": "Approved",
    "ErrorDescription": "No Errors"
  },
  "CardBrand": "Visa",
  "CardLast4Digits": "1234",
  "AuthCode": "333333",
  "MachineAuTime": "20240205194122328",
  "AuTime": "20240205174122328",
  "CurrencyCode": "EUR",
  "CurrencyNumeric": "978",
  "FiscalRrn": "1A2b3C4d5E6f7g8H9i",
  "NayaxRRN": "111111",
  "CancelTime": "20240205192215572",
  "CardFirst6Digits": "123456"
}
```

```
{
  "SparkTransactionId": "12c7cec2-c690-4425-9a1f-db0db60e2d8c",
  "Status": {
    "Verdict": "Declined",
    "ErrorCode": 51,
    "ErrorDescription": "External Cancel Failed"
  }
}
```

Best Practice - Spark

Common Problems

结果与错误处理

结果	事件代码	描述	建议采取的措施
成功	不适用	交易已成功结算或取消。	无需采取进一步行动。
身份验证失败	33	Nayax 无法验证第三方服务器的凭据。	立即重试身份验证请求。
能力验证失败	52	机器或增值服务提供商未配置外部结算。	检查 Nayax Core 配置；确保“支持外部结算”为 TRUE。
外部结算失败	50	请求失败，原因是缺少字段、标识符不匹配或系统错误。	首次尝试后 24 小时内最多可重试 5 次。
外部取消失败	51	取消操作失败，原因是缺少字段或处理错误。	无需手动操作。Nayax 将通过自动取消功能自动重试。
交易已完成	50 / 51	交易已完成或已无效。	请在系统中验证交易状态。

故障排除技巧

- **缺少必填字段：**如果字段如下 `SiteId` 如果缺少某些字段，系统将返回事件代码 50 或 51，并指明缺少的字段。 `StatusMessage` 。
- **交易未找到：**如果您收到“交易未找到”错误，请确保： `NayaxTransactionId` 和 `SiteId` 与原始交易数据完全一致。
- **卡组织合规性：**长时间未结算的交易将被系统自动取消。但是，集成商不应依赖此功能，如果无法完成结算，则应立即发送外部取消请求，以避免糟糕的用户体验和潜在的纠纷。
- **重试机制：**指令超时后需要进行必要的重试。
- **时间限制：**交易必须在48小时内完成。此窗口之后的结算尝试将失败。

Certification



Via e-Mail

2025 年 7 月 16 日

API 集成合规性认证和技术验证

尊敬的客户 (以下称为实现者):

在我们的技术验证过程成功完成后, 本函确认根据专业服务通用条款和条件 (T&Cs) 第 2.4 节对贵方的 API 集成进行认证。详情如下:

1. 认证的实现

机器类型	EV Charger (Single Connector)
认证类型	OTT Multi Session + PreAuthorize
Nayax 认证模型/机器 ID	0207124224166722 / 732814657
认证生效日期	July 16, 2025
认证到期日期	July 16, 2027

2. 认证的批准

Nayax 特此确认, 自认证生效日期起, 上述引用的实现已经成功地满足了 [Nayax Developer Hub](#) 中规定的技术要求和集成标准。

3. 期限及效力

3.1 期限: 本认证有效期至认证到期日, 除非根据本协议第 4 节提前终止。

3.2 范围: 本认证不可转让。仅适用于(i)上文第 1 节详述的具体实现配置; (ii) 依据其进行验证的规范版本; (iii) 在认证测试期间验证的特定技术组件和协议。

3.3 更新要求: 在认证到期日, 作为认证续期的条件, 实现者应按照 Nayax 的指示更新其集成部分。实现者承诺投入持续合理的商业努力和所需资源, 以保持最新的集成并获得 Nayax 的认证。实现者做不到这一点可能会导致 Nayax 服务的降级, 或者无法完全呈现这些服务。

4. 认证条款和条件: 本认证受 T&Cs 的约束。实现者对集成的持续使用构成对这些条款的接受。

4.1 保持合规性

实现者应: (i) 严格遵守规范; (ii) 按照 Nayax 的规定 (如有) 实施安全补丁和更新; (iii) 保持对认证实现的任何修改的详细记录。

4.2 重大变更

4.2.1 实现者应及时以书面形式通知 Nayax 任何可能影响其功能、安全性或符合规范的修改。

4.2.2 任何由 Nayax 自行决定的重大变更都需要重新认证。

4.3 暂停和终止

对于任何不遵守本条款的行为, Nayax 保留以下权利: (i)在收到书面通知后立即暂停或终止本认证; (ii) 在暂停或终止时要求立即停止使用经认证的实现方案; (iii) 根据需要撤销

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Via e-Mail

July 16, 2025

Re: Certification of API Integration Compliance and Technical Validation

Dear Customer (the "Implementer"),

Following the successful completion of our technical validation process, this letter confirms the certification of your API integration, in accordance with Section 2.4 of the General Terms and Conditions for Professional Services ("T&Cs"), as detailed below:

1. Certified Implementation

Machine Model	EV Charger (Single Connector)
Feature(s) Certified	OTT Multi Session + PreAuthorize
Nayax Machine Model Name/ID	0207124224166722 / 732814657
Certification Effective Date	July 16, 2025
Certification Expiration Date	July 16, 2027

2. Certified Validation

Nayax hereby confirms that, as of the Certification Effective Date, the above-referenced implementation has successfully satisfied the technical requirements and integration standards set forth in the [Nayax Developer Hub](#).

3. Term and Effectiveness

3.1 Term: This Certification shall remain valid until Certification Expiration Date, unless earlier terminated pursuant to Section 4 hereof.

3.2 Scope: This Certification is non-transferable and applies solely to the (i) specific implementation configuration detailed in Section 1 above; (ii) version of the Specification against which validation was performed; and (iii) specific technical components and protocols validated during certification testing.

3.3 Renewal Requirements: Upon the Certification Expiration Date, and as a condition for its renewal, the Implementer shall be required to update its part of the integration in accordance with Nayax' instructions. The Implementer undertakes to dedicate ongoing reasonable commercial efforts and required resources to keep the integration up-to-date and Certified by Nayax. Failure of the Implementer to do so may cause degradation in the Nayax services or inability to render such services altogether.

4. Terms and Conditions of Certification: This certification is subject to and governed by the T&Cs. Implementer's continued use of the Integration constitutes acceptance of these terms.

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Pre-production training

- Obtain a Nayax Core user account and search your machines

Nayax**DEMO**

Machines

Reports

Operations

Consumers

Logs

Administration

Settings

Try the New CORE

Hello, Jialin Zhu

Operator 52 - Ouxun欧寻

View By Operator

Status Active

Search

Search By

Search

Ouxun欧寻 (190)

000000000501098

0434332125147132-Pulse - Far East - Single Pul

0434332223232417-Horst Marshall AI standard

0434332224253800-0434332224253800

0434332924281413-HongKong Fintech week VI

0434333224291098-Office-Marshall-test

04434334524189375-Auto MDB L3 Always Idle

0534330519000053-CVS MDB VPOS Fusion

0611112318001829

0611112318001829-Lynx Test

0611112318001832-Remotevent - Office

0612122021012507-e

0612122123229255-Bill123-FTP

0612123123159010-0612123123159010 - in Lat

0612123320458322-DU-IcVjqXl33b4s

0612124622111351-in Lab exhibition

0612132525176499-DU-HKlilLsZlBbE

0612132725182882-DU-xuiETExZOpIB

1

2024 guangzhou exhibition06-04343313242144

2024 guangzhou exhibition07-e

2024 guangzhou exhibition08-ee

-20240621111132-5171-Auto MDB L3 Always Ic

-20240621173002-2395-Auto MDB L3 Always Ic

-20240621174811-2041-Auto MDB L3 Always Ic

2025 Guangzhou Exhibition MDB 02 DU 6700

Dashboard

Actions

Info

Create

Save

Dashboard

General

Products Map

Business days

Payment

Keep Alive

Queue

Dex

Attributes

History

Alerts

Auto PP Cards

FTL

Nayax Demo / Far East Dev Zone / Ouxun欧寻 / Test zone / 043433224291098-Office-Marshall-test

General Information

General

Operator*

Ouxun欧寻

Machine Type*

Vending Machine

Machine Model*

Marshall - Far East - Marshall AI VPOS T\O\F

Machine Profile

Choose...

Machine Group*

Test zone

Sales Source*

Live Transactions

Machine Reference*

Office-Marshall-test

Machine Number (Operator)

043433224291098

Machine Serial Number

043433224291098

Status*

Active

Labels

Choose...

Hardware

Machine Id

589139523

Smart Sticker ID

043433224291098 (0022000C 31334711 33373437)

Device Number

043433224291098

VPOS

043433224291098

Cash Box

Customer/Location Address (Filled by Distributor)

Use Location From

Customer/Location

Institute Name

Institute Location

Location Type

Choose...

Sub Location Type

Machine Location/Address

Search Address

Country

CHINA

State

City

Street Address

Zip Code

Location Longitude

Location Latitude

Location Zoom

Pre-production training

- Common operations of Nayax Core

This screenshot shows the 'General Information' page in the Nayax Core interface. The 'Actions' menu is open, displaying several options. The 'Update Queue' and 'Update Device Version' options are highlighted with blue boxes. The 'Info' tab is also highlighted with a red box. The page includes a sidebar with navigation links and a main content area with various fields for machine configuration.

Field	Value
Operator*	
Machine Type*	
Machine Model*	Marshall AI VPOS T\O\F
Machine Profile	
Machine Group*	
Sales Source*	
Machine Reference*	Office-Marshall-test
Machine Number (Operator)	0434333224291098
Machine Serial Number	0434333224291098
Status*	Active
Labels	Choose...

This screenshot shows the 'General Information' page in the Nayax Core interface. The 'Info' menu is open, displaying several options. The 'Last Sales' option is highlighted with a blue box. The 'Actions' tab is also highlighted with a red box. The page includes a sidebar with navigation links and a main content area with various fields for machine configuration.

Field	Value
Card Reader MDB Level	
Contactless delay start	500
Decimal Place	2
EMV Card Processing Delay in ms	500
EMV Contactless Transaction Limit	5000
Extended Cards Support	MAESTRO+SDA+DDA+BNP
MDB country code	156
Reader Failure	8

Pre-production training

- Common problems during production testing process

Last Sales

Show time as: ☒ Machine Time ☐ User Time

Actions Export

Machine Number (Operator)	Billing Provider Name	Payments(Source)	Card Number	Brand	CLI	Authorization Amount	Auth. Time	Settlement Amount	Settlement Time		Locatic
0434331424215818		Prepaid Credit(MIFH)	3393999944			1.00	06/11/2025 16:34:41	1.00	06/11/2025 16:34:52		
0434331424215818		Prepaid Credit(MIFH)	3393999944			12.00	06/11/2025 16:33:41	0.00	06/11/2025 16:33:49		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.01	06/11/2025 14:11:53	0.00	06/11/2025 14:12:04		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.01	06/11/2025 14:11:07	0.00	06/11/2025 14:11:16		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.01	06/11/2025 14:10:19	0.00	06/11/2025 14:10:28		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.01	06/11/2025 14:09:08	0.01	06/11/2025 14:09:18		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.01	06/11/2025 14:08:13	0.01	06/11/2025 14:08:23		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.50	06/11/2025 10:54:38	0.50	06/11/2025 10:54:48		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.03	06/11/2025 08:56:20	0.03	06/11/2025 08:57:26		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.02	06/11/2025 08:52:25	0.00	06/11/2025 08:52:39		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.02	06/11/2025 08:51:46	0.02	06/11/2025 08:52:03		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.03	06/11/2025 08:51:11	0.03	06/11/2025 08:51:33		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.03	06/11/2025 08:50:26	0.03	06/11/2025 08:50:50		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.01	06/11/2025 08:48:52	0.01	06/11/2025 08:49:01		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.01	06/11/2025 08:47:10	0.01	06/11/2025 08:47:17		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.01	06/11/2025 08:46:52	0.01	06/11/2025 08:47:02		
0434331424215818		Prepaid Credit(MIFH)	3393999944			0.01	06/11/2025 08:46:32	0.01	06/11/2025 08:46:42		
0434331424215818		Prepaid Credit(MIFH)	3393999944			1.00	06/11/2025 08:44:20	0.00	06/11/2025 08:44:26		
0434331424215818		Prepaid Credit(MIFH)	3393999944			1.00	06/11/2025 08:43:47	0.00	06/11/2025 08:43:55		
0434331424215818		Prepaid Credit(MIFH)	3393999944			1.00	06/11/2025 08:43:38	0.00	06/11/2025 08:43:40		
0434331424215818		Prepaid Credit(MIFH)	3393999944			1.00	06/11/2025 08:43:15	1.00	06/11/2025 08:43:26		

- Cash Price Zero
- Cashless Cancelled - Timed out
- Cashless Cancelled by Consumer
- Cashless Cancelled by machine
- Cashless Cancelled - Not Enough credit
- Cashless Cancelled - MDB no idle
- Cancelled - Product could not be dispensed
- Cashless cancelled - Power down
- Power down in dispense mode
- Cancelled by Machine during Authorization
- Cashless Cancelled - Other
- Cashless Cancelled - Server Automatic Void
- Cashless Cancelled - Server Automatic Cancel
- Cashless Cancelled - Offline Wallet Refund
- Cashless Cancelled - Timeout void
- Cashless Cancelled - Mobile payment provider void
- Cancelled by pp data query
- Cashless Unsettled
- Cashless Forced
- Unsettled Cancel100
- Sale
- Free
- Refund Requested
- Refunded
- Miryou Failure
- Miryou Success
- Loyalty Card Validation Only
- Declined during Authorization

Unknown(0 = 0.01)

Unknown(0 = 0.01)

Unknown(0 = 0.01)

Unknown(0 = 0.01)

Unknown(-1 = 0.00)

Unknown(-1 = 0.00)

Unknown(-1 = 0.00)

Unknown(0 = 1.00)



Thank you!

Jialin Zhu

China Technical Support Manager

jialinz@nayax.com

